

PRODUCT DATA SHEET

Sikament[®]-900 MM

High Range Water-Reducing Concrete Admixture

DESCRIPTION

Sikament[®]-900 MM is used as highly effective water reducing agent and superplasticizer for the production of high strength concrete in hot climates.

USES

As a superplasticizer, Sikament[®]-900 MM is used for flowing concrete in :

- Slabs and foundations
- Walls and columns
- Slender components with densely packed reinforcement
- Beams and ceilings

As a substantial water reducing agent, Sikament[®]-900 MM is used where high early and ultimate strength is required, such as :

- Prestressed concrete surfaces
- Concrete elements manufactured in precast factories, where rapid moulding and early load application is required
- Bridges and cantilever structures

FEATURES

Sikament[®]-900 MM provides the following properties :

- Substantial improvement in workability without increased water
- Normal set without retardation
- Accelerated hardening after setting
- Significant increase of early and ultimate strengths, by over 30%
- Especially suitable for concreting at elevated temperatures
- Increased water tightness
- Improved surface finish
- Reduced shrinkage and creep
- Chloride-free, does not attack reinforcement
- Increased resistant to wear and abrasion

PRODUCT INFORMATION

Composition	Naphtalene Sulfonate
Packaging	5Lit pail/ 20Lit pail/ 200 ltr drums/ 1000Lit Tank
Shelf life	12 months from the date of production if stored properly in undamaged, original, sealed packaging.
Storage conditions	Stored in dry conditions, protected from direct sunlight
Appearance and colour	Liquid / Dark brown
Specific gravity	1.167 - 1.187
pH-Value	5.5 - 7.5

TECHNICAL INFORMATION

Specific advice	Concrete shall be designed in accordance with ACI 211.1-89 standard recommended practice for selecting proportions for concrete and shall contain a superplasticizer which shall be Sikament® -900 MM as manufactured by Sika. It shall be used in strict accordance with the manufacturer's recommendations.
Concrete mix design	Sikament® -900 MM as an accelerator High Early Strength Concrete

APPLICATION INFORMATION

Recommended dosage	The dosage of Sikament® -900 MM is between 0.6 - 2.5% of the cement weight. It is advisable to carry out trial mixes to establish the exact dosage rate required. Sikament® -900 MM is compatible with all types of Portland cement, including S.R.C.
Dispensing	Sikament® -900 MM can be added to the gauging water prior to its addition to the dry mix or separately to the freshly mixed concrete (on the batching plant or on site into the truck mixer).

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LIMITATIONS OF USE

Accidental overdosing of Sikament® -900 MM causes an extension of the initial setting time, however, no excessive amount of additional air will be entrained.

ECOLOGY, HEALTH AND SAFETY

Ecology: Do not dispose into water
Transportation class: Non-hazardous
Waste disposal: According to local law
Important notes: Avoid contact with foodstuffs and utensils. Avoid prolonged skin contact. In the event of contamination wash thoroughly with water. If the eyes or mouth are affected wash with clean water and obtain medical attention immediately.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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